Resource Summary Report

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HMW gDNA purification and ONT ultra-long-read data generation

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Proper Citation

Glennis Logsdon 2020. HMW gDNA purification and ONT ultra-long-read data generation. protocols.io dx.doi.org/10.17504/protocols.io.bchhit36

Protocol Information

URL: https://dx.doi.org/10.17504/protocols.io.bchhit36

Authors: Glennis Logsdon

Group: High molecular weight DNA extraction from all kingdoms

Summary: This protocol describes the purification of high-molecular-weight genomic DNA from mammalian cells and the generation of ultra-long (N50 >100 kbp) Oxford Nanopore data. It is based on the Sambrook and Russell protocol and Josh Quick's protocol with additional modifications. This protocol improves upon previous protocols developed for ultra-long read sequencing, as it gives longer reads with greater yield. In our hands, we obtain about 1-2 Gb of ultra-long-read ONT data with an N50 ~150 kbp on one MinION flow cell.

Affiliations: University of Washington

Version: 1

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